

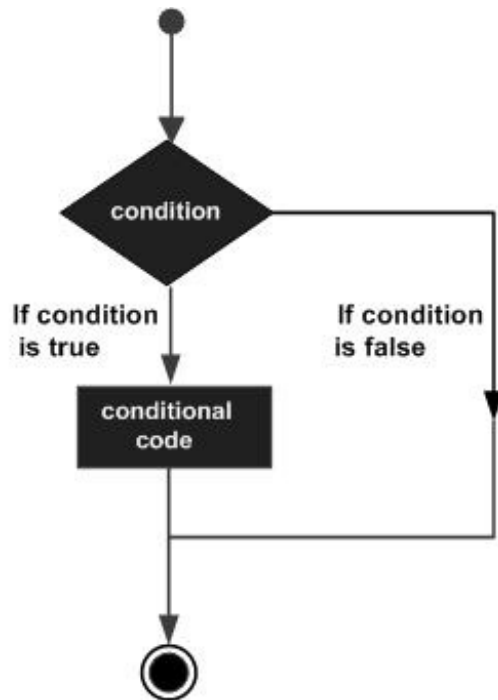
# PYTHON DECISION MAKING

[http://www.tutorialspoint.com/python/python\\_decision\\_making.htm](http://www.tutorialspoint.com/python/python_decision_making.htm)

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Decision making structures require that the programmer specify one or more conditions to be evaluated or tested by the program, along with a statement or statements to be executed if the condition is determined to be true, and optionally, other statements to be executed if the condition is determined to be false.

Following is the general form of a typical decision making structure found in most of the programming languages:



Python programming language assumes any **non-zero** and **non-null** values as **true** and if it is either **zero** or **null** then it is assumed as **false** value.

Python programming language provides following types of decision making statements. Click the following links to check their detail.

Statement	Description
<a href="#">if statements</a>	An <b>if statement</b> consists of a boolean expression followed by one or more statements.
<a href="#">if...else statements</a>	An <b>if statement</b> can be followed by an optional <b>else statement</b> , which executes when the boolean expression is false.
<a href="#">nested if statements</a>	You can use one <b>if</b> or <b>else if</b> statement inside another <b>if</b> or <b>else if</b> statement(s).

## Single Statement Suites:

If the suite of an **if** clause consists only of a single line, it may go on the same line as the header statement.

Here is an example of a **one-line if** clause:

```
#!/usr/bin/python  
  
var = 100  
  
if ( var == 100 ) : print "Value of expression is 100"  
  
print "Good bye!"
```

When the above code is executed, it produces following result:

```
Value of expression is 100  
Good bye!
```